(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 22 September 2005 (22.09.2005)

PCT

(10) International Publication Number WO 2005/087278 A1

(51) International Patent Classification⁷: 2/20, C01B 13/11

A61L 9/015,

•

(21) International Application Number:

PCT/CA2005/000412

(22) International Filing Date: 18 March 2005 (18.03.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

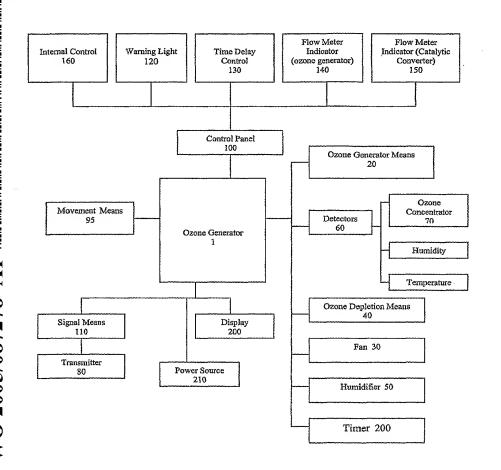
60/553,937 18 March 2004 (18.03.2004) US 60/625,101 5 November 2004 (05.11.2004) US 60/656,888 1 March 2005 (01.03.2005) US

(71) Applicant (for all designated States except US): TREATED AIR SYSTEMS INC. [CA/CA]; 6421 - 179th Street, Surrey, British Columbia V3S 7J9 (CA).

- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BOAST, Nigel [ZW/CA]; c/o Growth Builders Consulting Ltd., #9 3151 Lakeshore Road, Kelowna, British Columbia V1W 3S9 (CA). HESELTON, Doug [CA/CA]; 6421 179th Street, Surrey, British Columbia V3S 7J9 (CA). HUDSON, Jim; 4700 Stahaken Place, Delta, British Columbia, V4M 4B3.
- (74) Agent: INGALLS, Doran; Fasken Martineau DuMoulin LLP, 2100 - 1075 West Georgia Street, Vancouver, British Columbia V6E 3G2 (CA).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,

[Continued on next page]

(54) Title: APPARATUS AND METHOD FOR USING OZONE AS A DISINFECTANT



(57) Abstract: Α method sterilizing а closed environment is provided in which an ozone generator is placed into the closed environment; it then generates ozone to a predetermined ozone concentration and increases the humidity of the closed environment. The ozone concentration is maintained at the predetermined ozone concentration for a predetermined period of time, and after the period of time has expired, the ozone is depleted. When the ozone concentration is reduced to a predetermined safe level, the ozone generator signals.

WO 2005/087278 A1

WO 2005/087278 A1



TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.